

SOLVING EQUATIONS WITH RADICALS

1. $x^2 = 9$

8. $x^5 = 32$

2. $x^2 - 4 = 12$

9. $3x^4 - 43 = 200$

3. $2x^2 + 1 = 99$

10. $\sqrt[3]{x+1} = 7$

4. $x^3 = 8$

11. $\sqrt[3]{x} = 64$

12. $\sqrt[4]{x-3} = 2$

5. $x^3 + 2 = 29$

13. $\sqrt[3]{2x} = 3$

6. $4x^3 - 7 = 493$

7. $x^4 = 16$

Name_____

Date_____Block_____

$$14. \frac{\sqrt{x+4}}{2} = -5$$

$$19. -3\sqrt{x-4} = -12$$

$$15. \frac{\sqrt{x+4}}{-2} = -5$$

$$20. -4 + \sqrt[3]{x} = -2$$

$$21. \sqrt{3 + \sqrt{x}} = 4$$

$$16. \frac{\sqrt[3]{x}}{-4} = 54$$

$$22. 2(x^5 - 1) = 0$$

$$17. \frac{\sqrt[3]{x}}{4} = 54$$

$$23. 3(x^2 + 5) = 21$$

$$18. 3\sqrt{x-4} = -12$$

$$24. 5\left(\frac{x^2}{2} - 1\right) = 85$$